

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P534556

Luminaire Tested: **S921DIP-W535-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35514)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W535-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

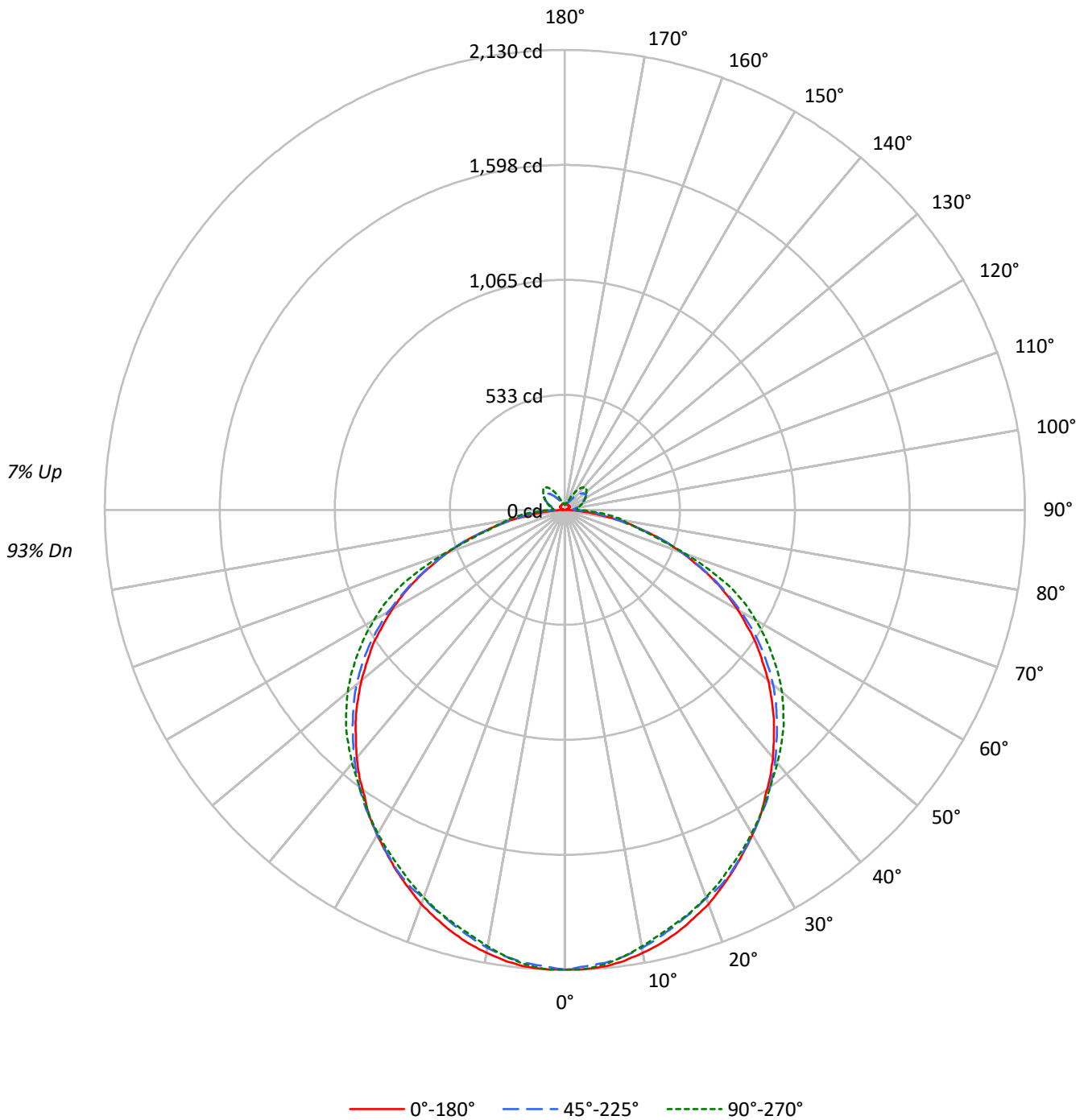
Lumens per Lamp: N/A
Luminaire Lumens: 6459.1 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 68
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93	
1	107	102	98	94	104	99	95	92	94	91	88	89	86	84	84	82	80	84	82	80	78	
2	97	89	82	76	94	86	80	75	82	77	72	78	73	70	74	70	67	74	70	67	64	
3	89	78	70	63	85	76	68	62	72	66	60	68	63	58	65	60	57	65	60	57	54	
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	48	58	53	48	46	
5	74	61	52	46	72	60	52	45	57	50	44	54	48	43	52	46	42	52	46	42	40	
6	69	55	46	40	66	54	46	39	51	44	39	49	43	38	47	41	37	47	41	37	35	
7	64	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	43	37	33	31	
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	39	34	29	27	
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	31	26	36	31	26	24	
10	52	39	31	25	50	38	30	25	36	29	25	35	29	24	34	28	24	34	28	24	22	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8459	8459	8459
5°	8408	8131	8103
10°	8289	7791	7666
15°	8152	7434	7270
20°	7991	7115	6927
25°	7801	6863	6582
30°	7630	6547	6287
35°	7444	6273	5986
40°	7298	5971	5747
45°	7139	5668	5528
50°	6957	5372	5258
55°	6757	4998	4922
60°	6473	4538	4531
65°	6083	3958	4014
70°	5509	3282	3069
75°	4632	2460	2116
80°	3543	1600	1740
85°	1771	1086	1221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	3.1
10°-20°	564.5	8.7
20°-30°	846.8	13.1
30°-40°	1021.6	15.8
40°-50°	1078.7	16.7
50°-60°	1000.4	15.5
60°-70°	769.9	11.9
70°-80°	413.5	6.4
80°-90°	139.3	2.2
90°-100°	45.3	0.7
100°-110°	65.4	1.0
110°-120°	82.1	1.3
120°-130°	83.5	1.3
130°-140°	69.9	1.1
140°-150°	44.9	0.7
150°-160°	21.1	0.3
160°-170°	9.1	0.1
170°-180°	2.8	0.0
0°-30°	1611.7	25.0
0°-40°	2633.2	40.8
0°-60°	4712.4	73.0
0°-90°	6035.1	93.4
90°-120°	192.8	3.0
90°-150°	391.1	6.1
90°-180°	424.0	6.6
0°-180°	6459.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2130	2130	2130	2130	2130	
5°	2123	2123	2106	2116	2113	201
15°	2023	2020	1990	1987	1984	570
25°	1844	1847	1841	1831	1821	850
35°	1618	1638	1635	1631	1628	1015
45°	1369	1389	1389	1419	1432	1055
55°	1083	1096	1110	1153	1173	965
65°	754	754	761	817	844	744
75°	389	385	385	372	372	417
85°	73	93	126	150	166	93
90°	3	27	43	56	60	5
95°	3	33	43	53	56	4
105°	13	63	70	73	73	13
115°	20	76	96	100	100	21
125°	27	60	120	123	123	23
135°	27	40	106	133	140	21
145°	27	33	70	110	120	17
155°	30	33	40	56	66	13
165°	30	30	33	33	33	8
175°	30	30	27	27	23	3
180°	27	27	27	27	27	



TEST NUMBER: P534556

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2129.7	2129.7	2129.7	2129.7	2129.7
2.5°	2129.7	2129.7	2116.4	2129.7	2129.7
5°	2123.1	2123.1	2106.5	2116.4	2113.1
7.5°	2106.5	2103.2	2086.5	2089.9	2086.5
10°	2083.2	2083.2	2060.0	2060.0	2053.3
12.5°	2056.6	2053.3	2026.7	2023.4	2016.8
15°	2023.4	2020.1	1990.2	1986.9	1983.5
17.5°	1983.5	1976.9	1953.6	1957.0	1950.3
20°	1943.7	1937.0	1913.8	1920.4	1910.4
22.5°	1893.8	1890.5	1883.9	1877.2	1867.3
25°	1844.0	1847.3	1840.7	1830.7	1820.7
27.5°	1790.8	1794.2	1787.5	1784.2	1777.5
30°	1737.7	1744.3	1737.7	1737.7	1731.0
32.5°	1684.5	1691.2	1684.5	1681.2	1681.2
35°	1618.1	1638.0	1634.7	1631.4	1628.0
37.5°	1561.6	1581.5	1574.9	1578.2	1578.2
40°	1498.5	1518.4	1515.1	1528.4	1531.7
42.5°	1432.0	1451.9	1451.9	1475.2	1481.8
45°	1368.9	1388.8	1388.8	1418.7	1432.0
47.5°	1299.1	1315.7	1325.7	1358.9	1372.2
50°	1229.3	1242.6	1259.2	1295.8	1312.4
52.5°	1152.9	1169.5	1186.1	1229.3	1245.9
55°	1083.1	1096.4	1109.7	1152.9	1172.8
57.5°	1000.1	1016.7	1026.7	1069.9	1099.8
60°	923.7	933.6	943.6	990.1	1020.0
62.5°	840.6	847.2	850.6	907.0	940.3
65°	754.2	754.2	760.9	817.3	843.9
67.5°	661.2	664.5	667.8	714.3	721.0
70°	574.8	568.2	574.8	601.4	594.7
72.5°	485.1	475.1	488.4	478.4	465.2
75°	388.7	385.4	385.4	372.1	372.1
77.5°	309.0	302.3	295.7	295.7	302.3
80°	222.6	225.9	219.3	249.2	272.4
82.5°	142.9	149.5	172.8	216.0	222.6
85°	73.1	93.0	126.3	149.5	166.1
87.5°	26.6	56.5	73.1	93.0	103.0
90°	3.3	26.6	43.2	56.5	59.8
92.5°	3.3	29.9	39.9	49.8	53.2
95°	3.3	33.2	43.2	53.2	56.5
97.5°	6.6	39.9	49.8	56.5	59.8
100°	6.6	46.5	56.5	59.8	63.1
102.5°	10.0	53.2	63.1	66.5	66.5
105°	13.3	63.1	69.8	73.1	73.1
107.5°	13.3	69.8	76.4	79.7	79.7
110°	16.6	76.4	83.1	86.4	86.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.9	79.7	89.7	93.0	93.0
115°	19.9	76.4	96.4	99.7	99.7
117.5°	23.3	76.4	103.0	103.0	103.0
120°	23.3	73.1	109.6	109.6	109.6
122.5°	26.6	66.5	113.0	116.3	116.3
125°	26.6	59.8	119.6	122.9	122.9
127.5°	26.6	56.5	119.6	126.3	126.3
130°	26.6	49.8	116.3	129.6	129.6
132.5°	26.6	43.2	113.0	136.2	136.2
135°	26.6	39.9	106.3	132.9	139.5
137.5°	26.6	36.5	99.7	132.9	139.5
140°	26.6	36.5	89.7	126.3	136.2
142.5°	26.6	36.5	79.7	119.6	129.6
145°	26.6	33.2	69.8	109.6	119.6
147.5°	26.6	33.2	59.8	96.4	106.3
150°	26.6	33.2	49.8	83.1	96.4
152.5°	26.6	33.2	43.2	69.8	83.1
155°	29.9	33.2	39.9	56.5	66.5
157.5°	29.9	33.2	36.5	46.5	49.8
160°	29.9	29.9	33.2	39.9	39.9
162.5°	29.9	29.9	33.2	33.2	33.2
165°	29.9	29.9	33.2	33.2	33.2
167.5°	29.9	29.9	33.2	33.2	29.9
170°	29.9	29.9	29.9	29.9	29.9
172.5°	29.9	29.9	29.9	29.9	26.6
175°	29.9	29.9	26.6	26.6	23.3
177.5°	29.9	29.9	29.9	26.6	23.3
180°	26.6	26.6	26.6	26.6	26.6

(END OF REPORT)